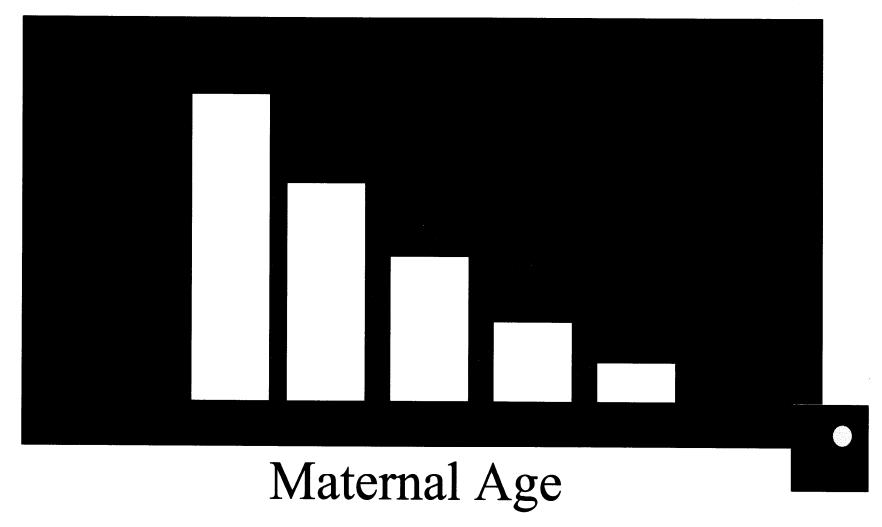




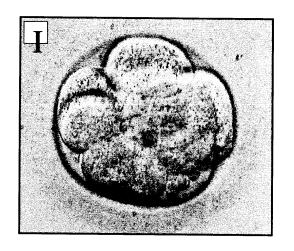
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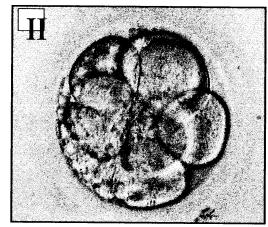
Implantation Rate After Aneuploidy Testing

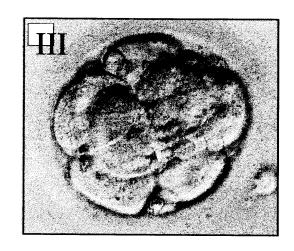


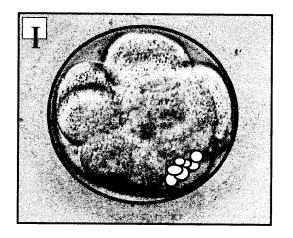


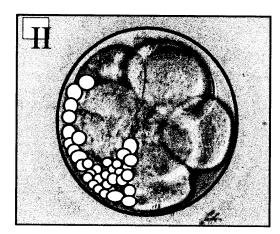
CELLULAR FRAGMENTATION

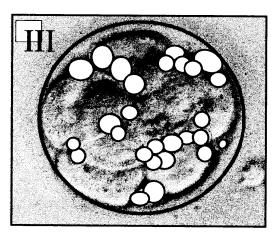


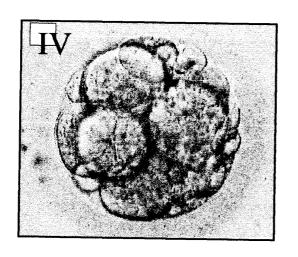


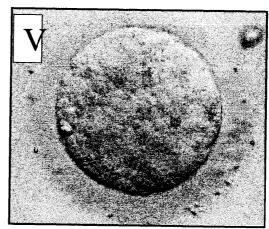


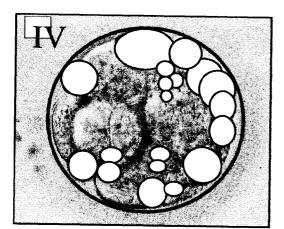


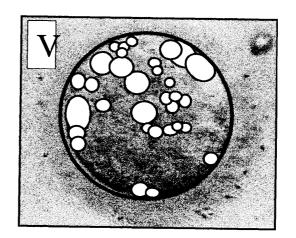








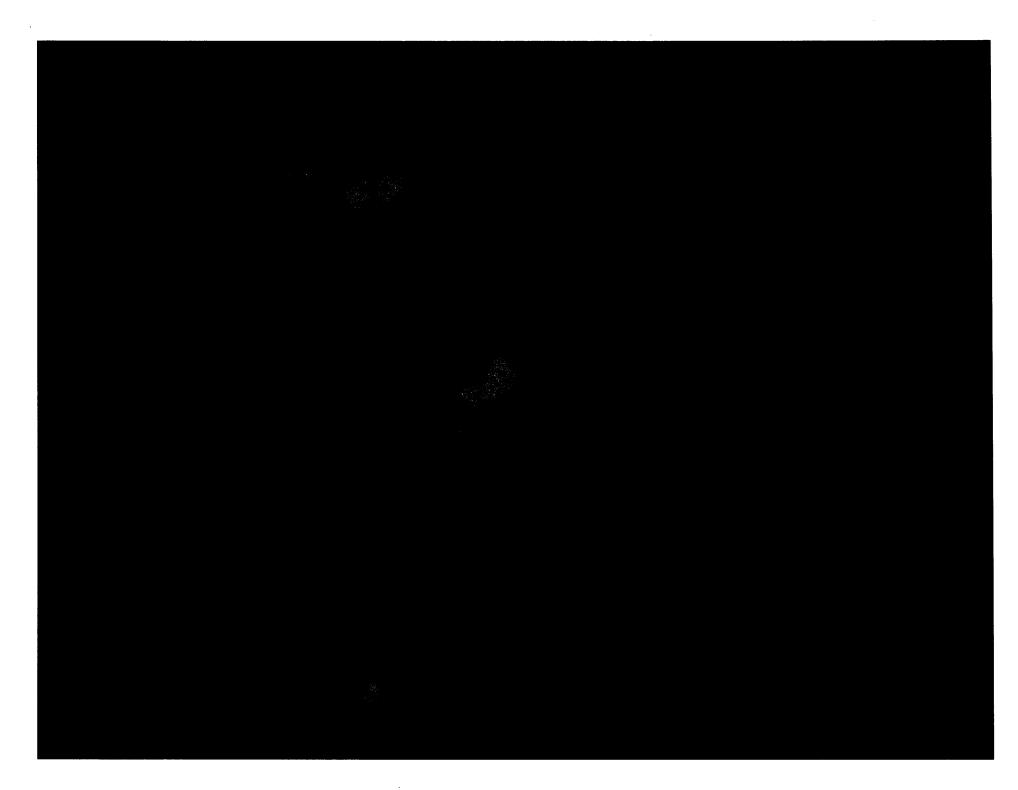




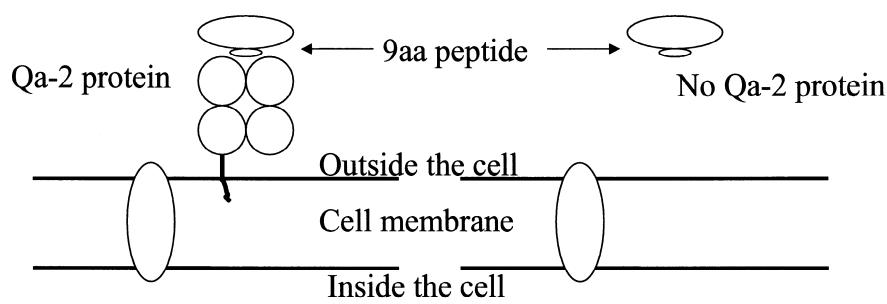
Alikani et al, 1995, 1999

PED Gene





Predicted protein characteristics of the *Ped fast* and *Ped slow* phenotype (mouse)



Ped fast

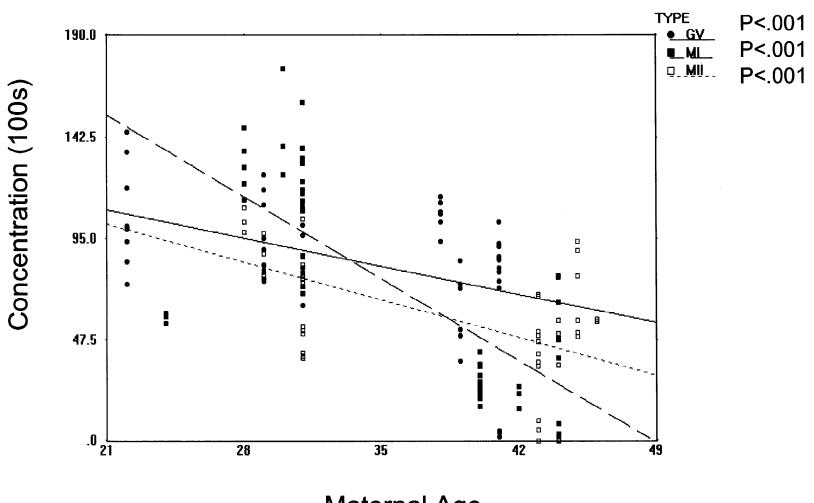
Fast embryos blastocyst stage-32 cells Presence of protein

Ped slow

Slow embryos morula stage-19 cells Absence of protein

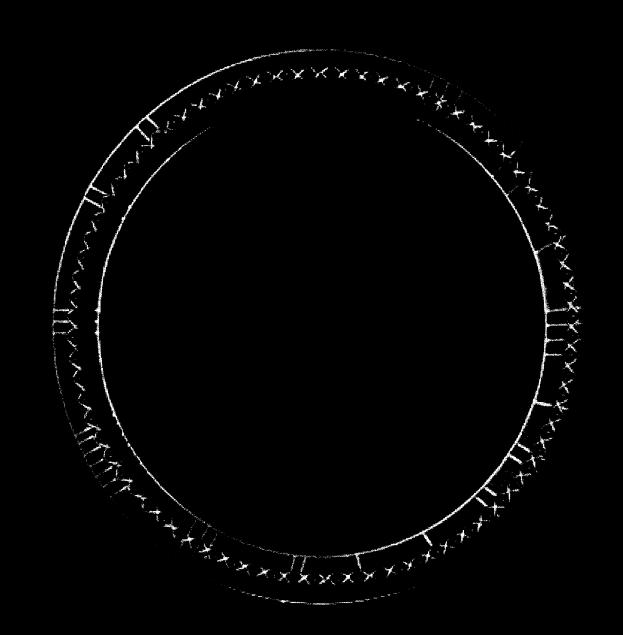
Warner et al, 1998

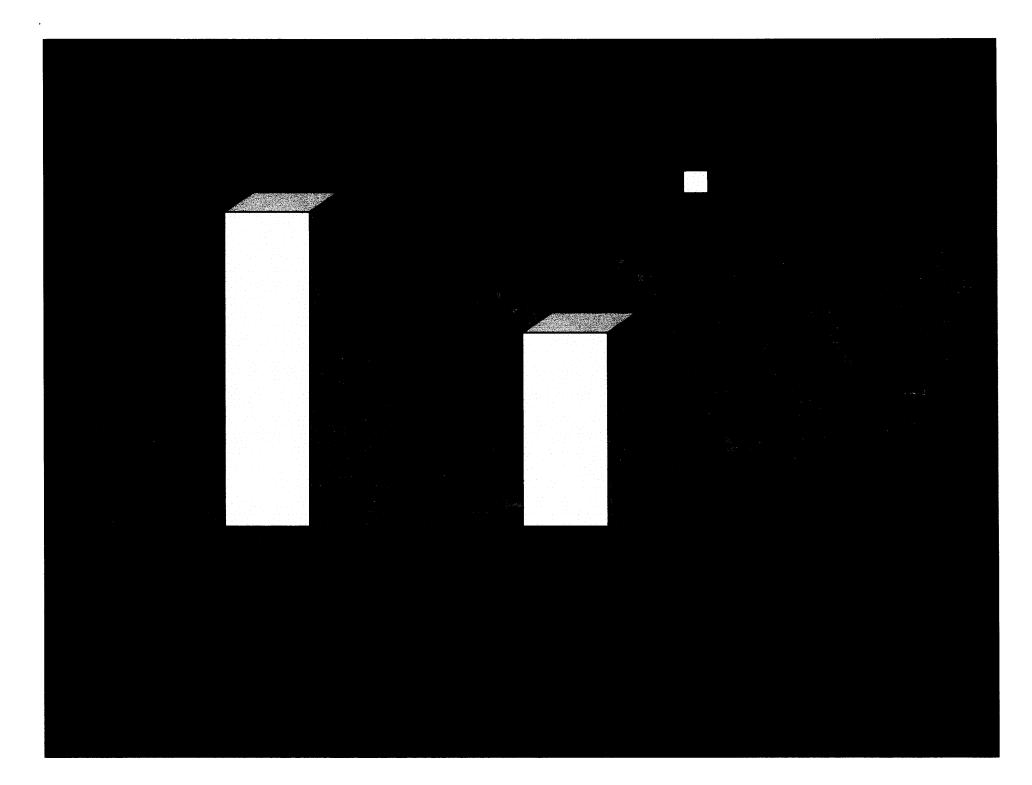
Mad2 mRNA Concentration in Human Oocytes versus Maternal Age



Maternal Age



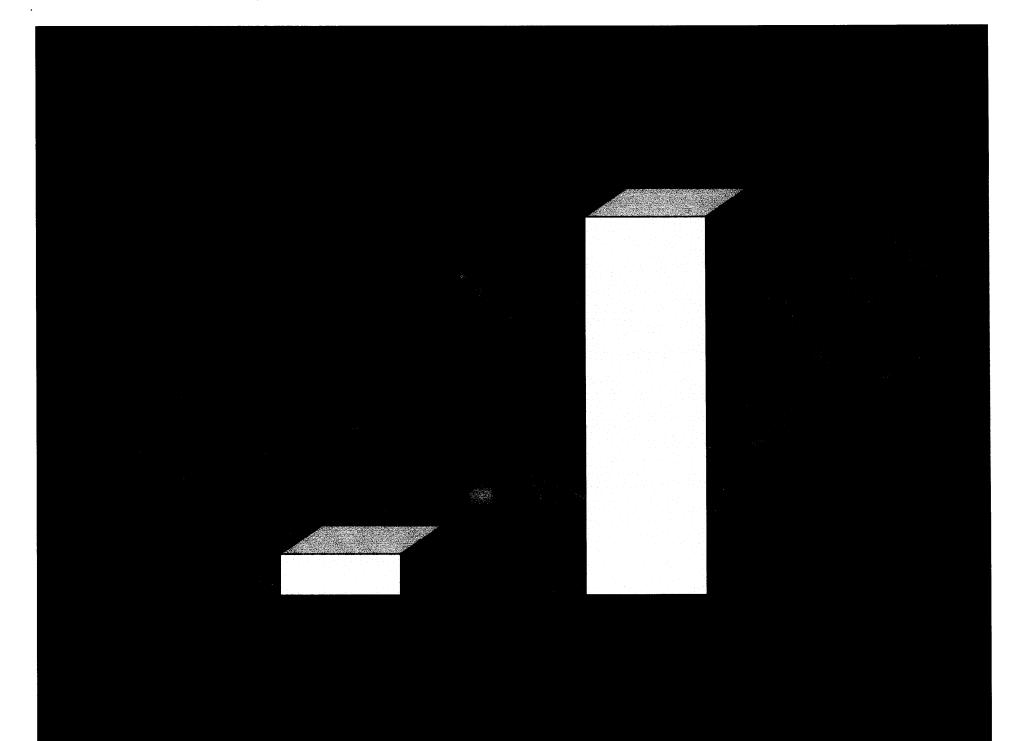


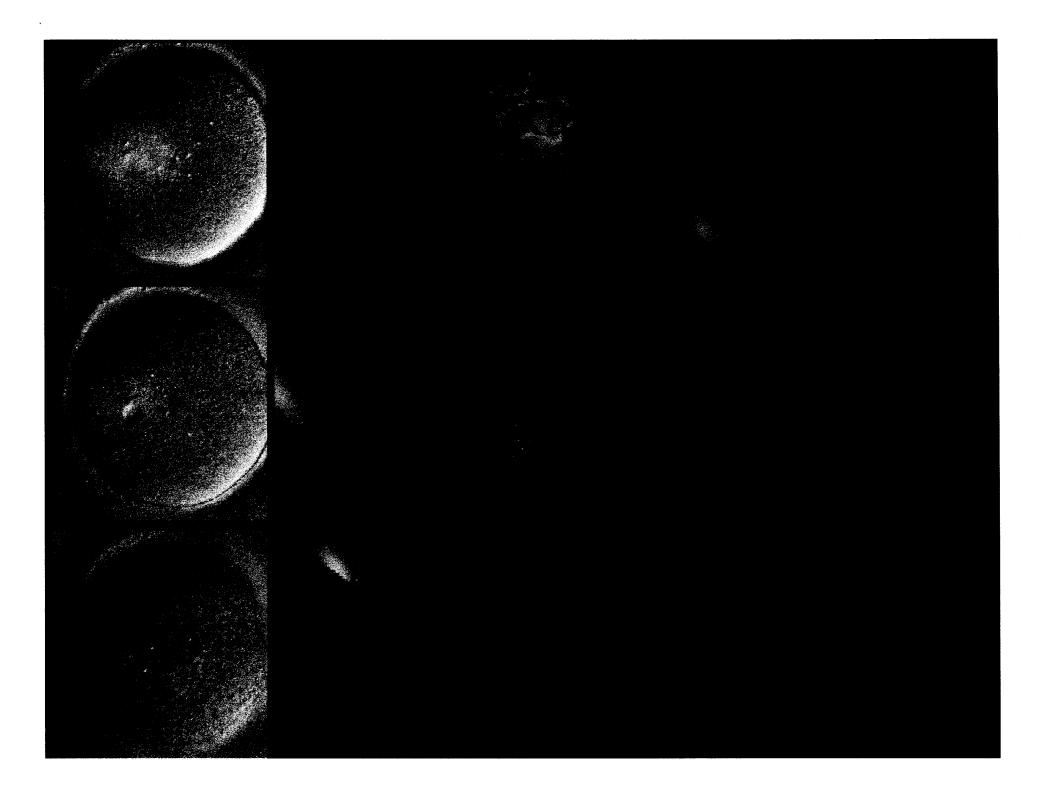


mtDNA Mutation T414G and Age



Barritt et al., Reproductive Biomedicine Online, 2001









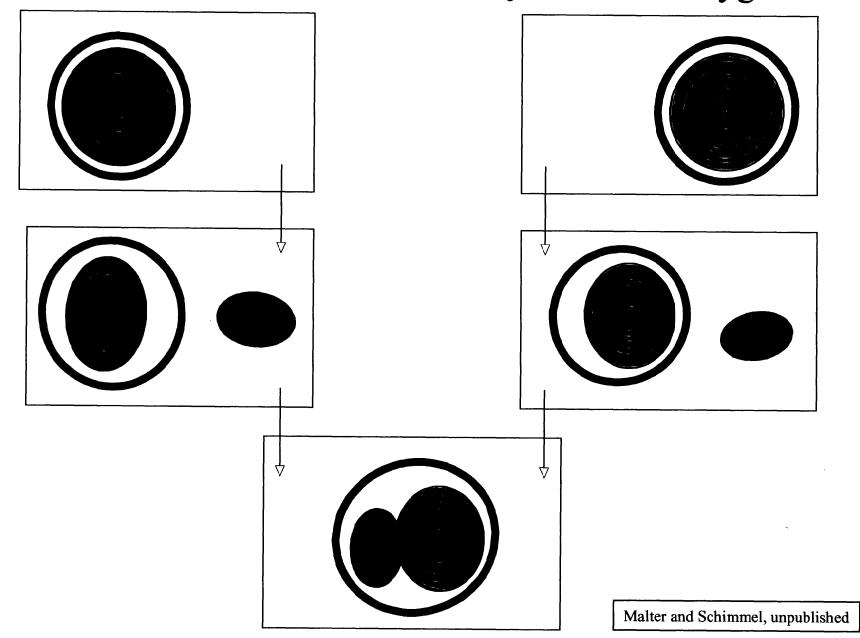


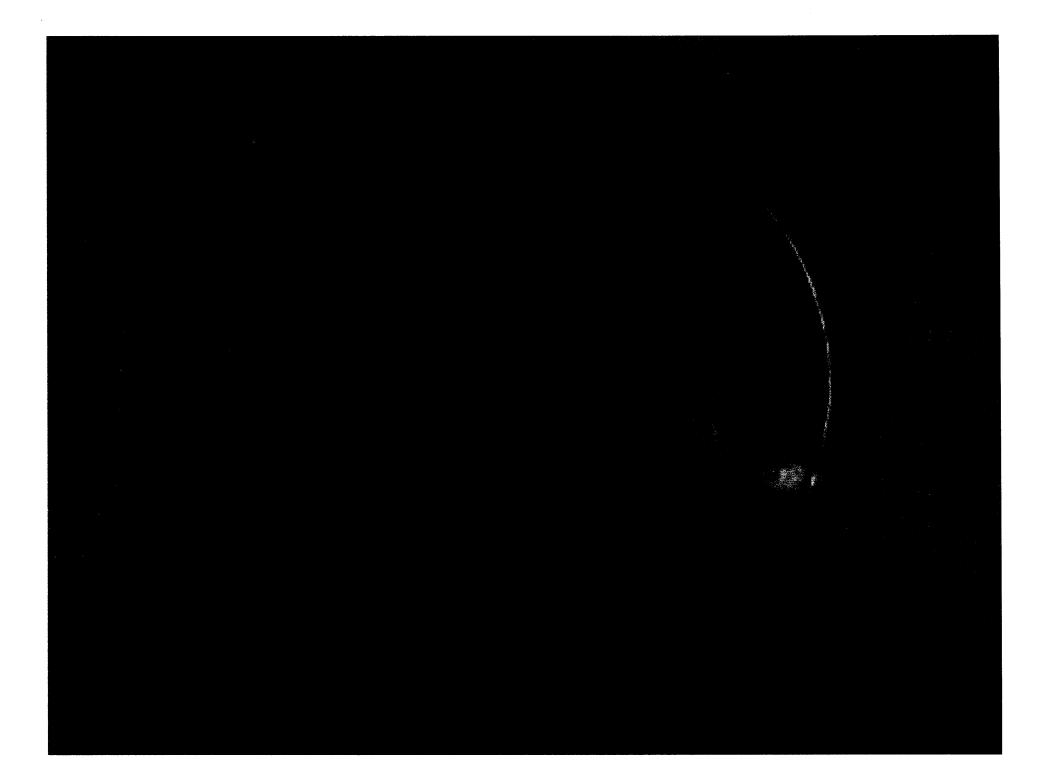




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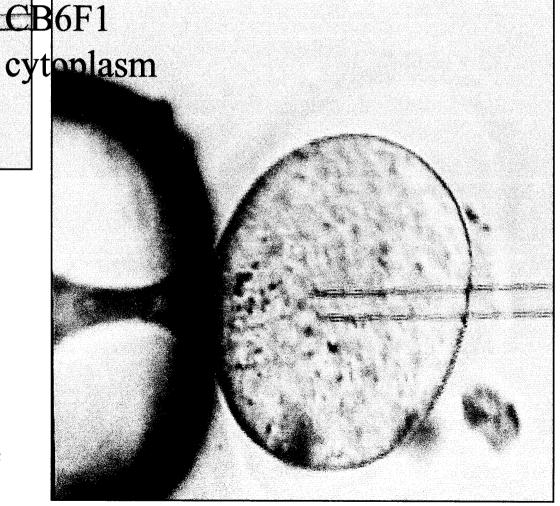
Nuclear transplantation of F1 hybrid mouse zygotes





NZBoocyte Cyt

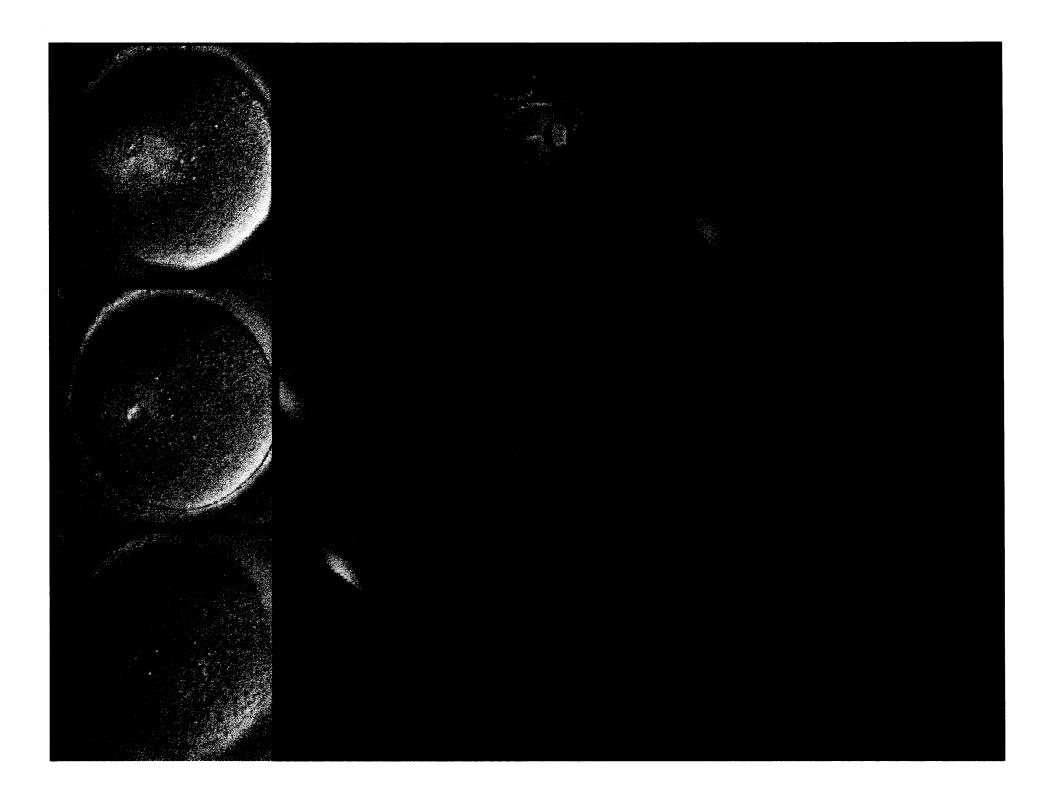
Ooplasmic Transplantation By Piezo Facilitated Injection

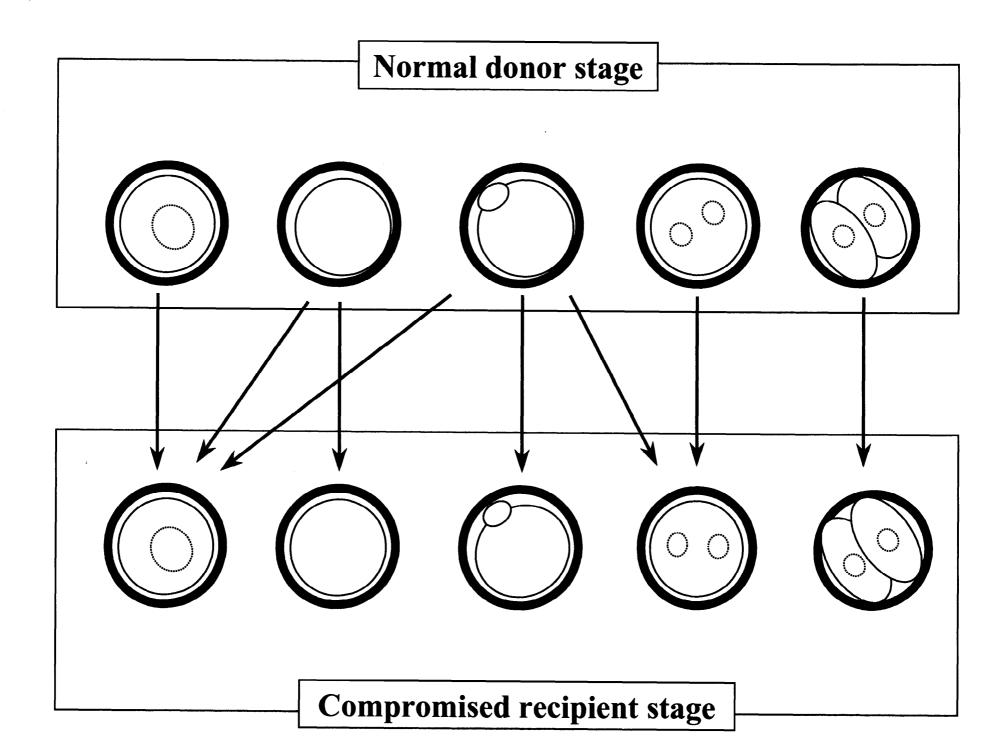


- Thinned tool
- Multiple donor aspiration
- Similar ratio to human procedure

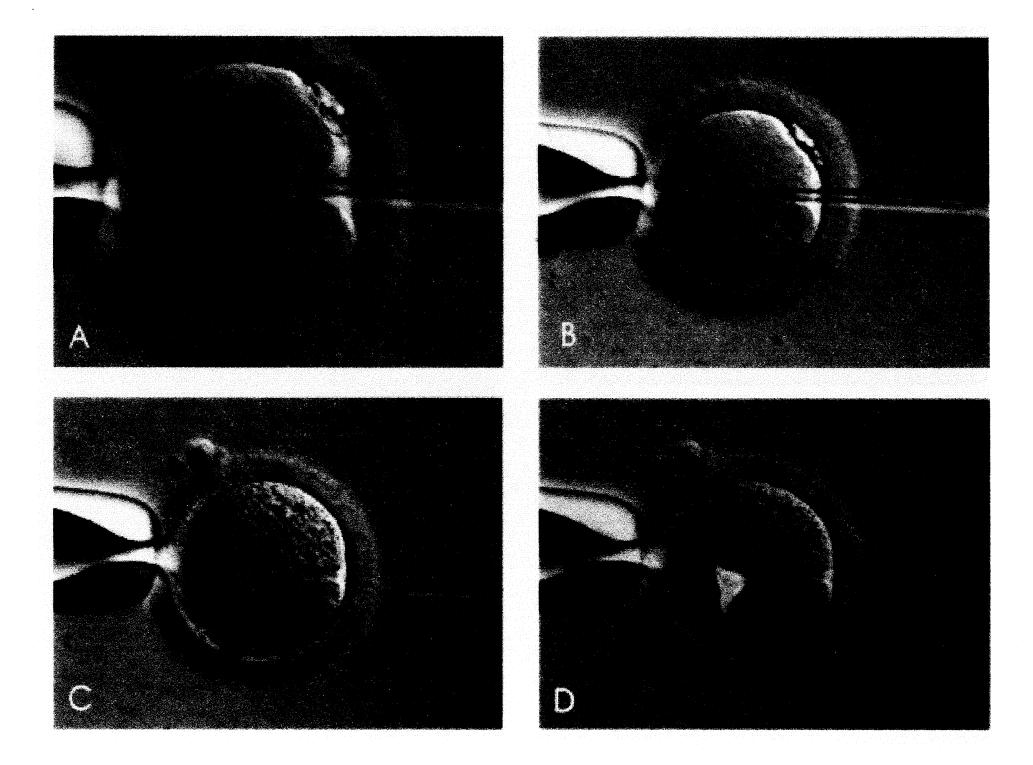
Survival – up to 90+% Good preimplantation development

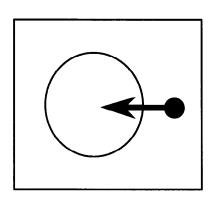






Ooplasmic donation by injection Donor Recipient



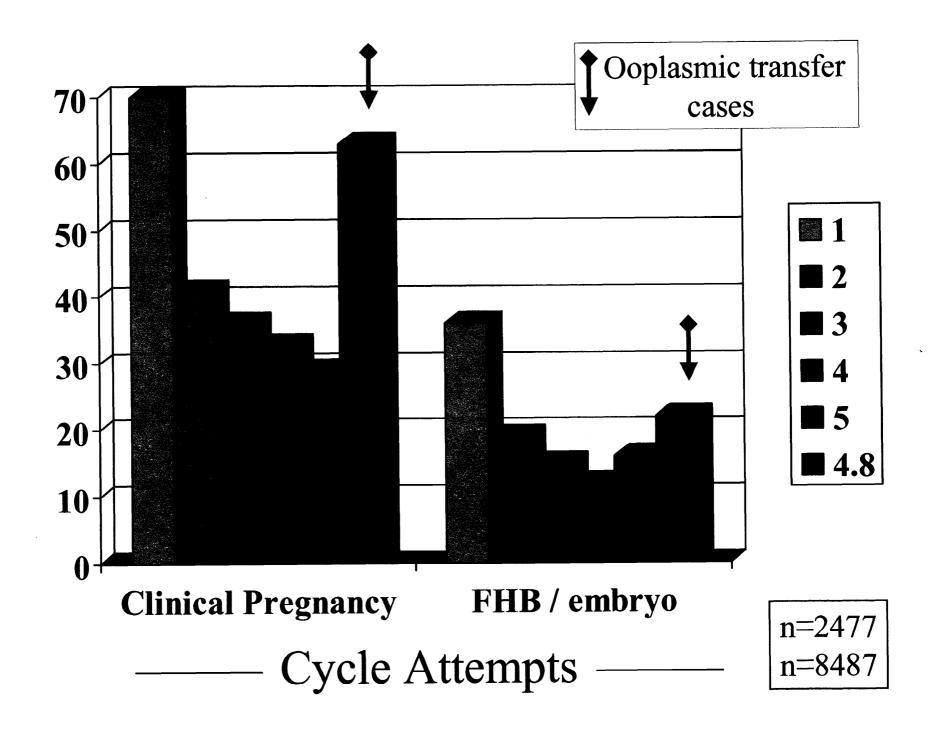


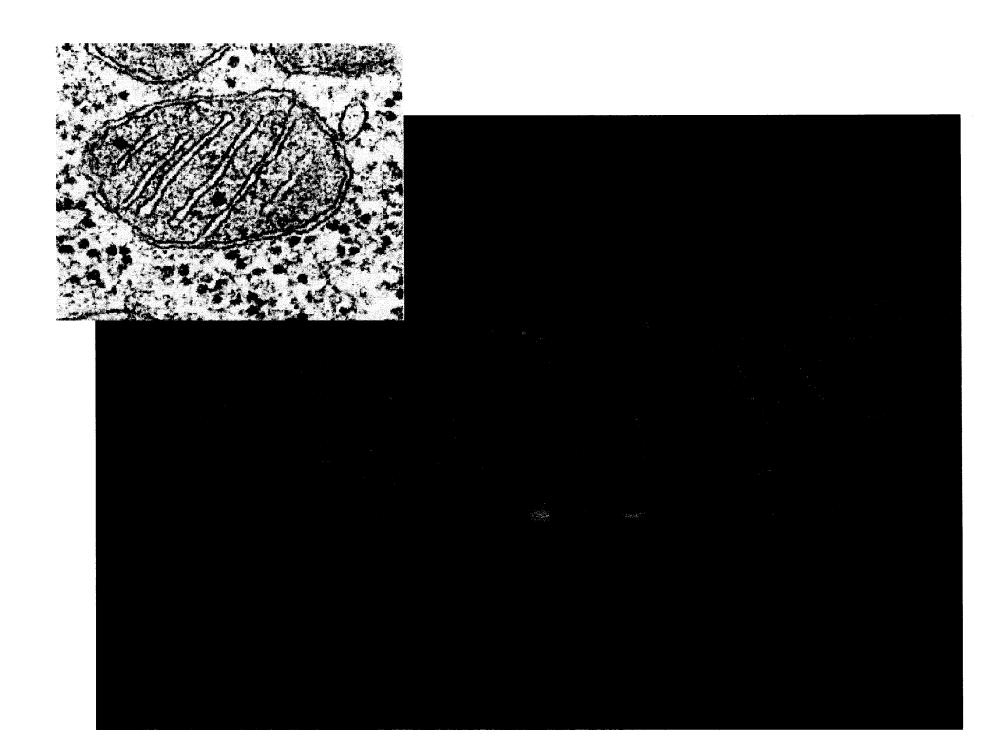
Ooplasmic Transfer by injection

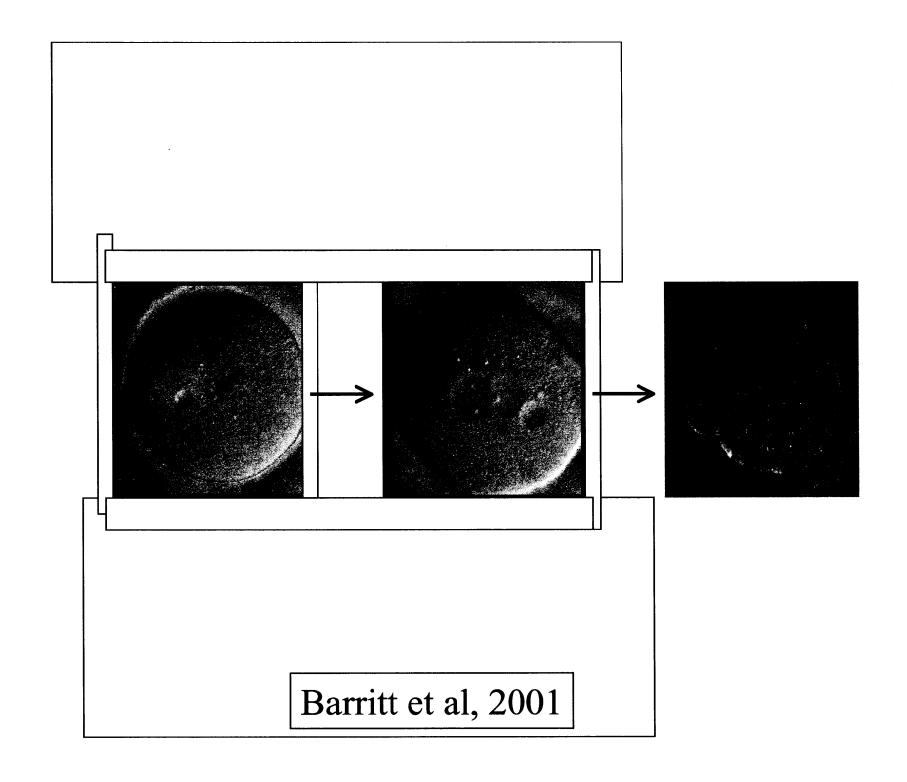
- 28 patients (33 cycles): egg donation candidates
- Recurrent implantation failure (RIF)
- Recurrent poor embryo morphology
- 9 male factors
- 5 with repeated miscarriages

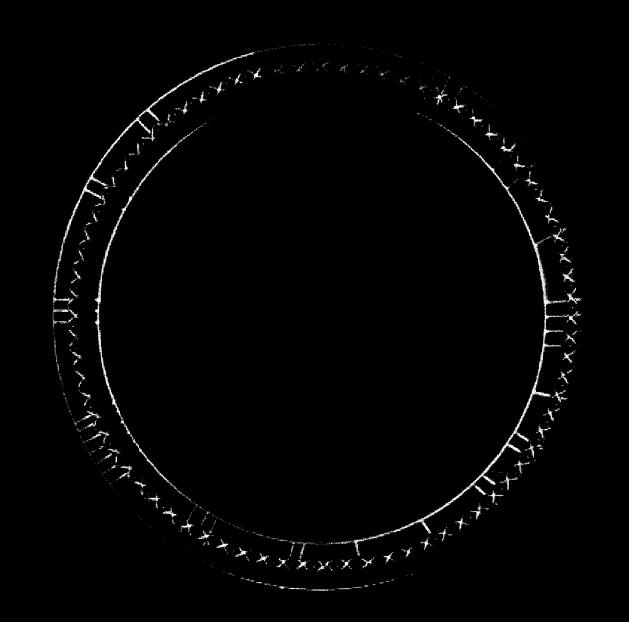


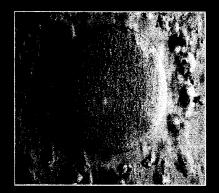








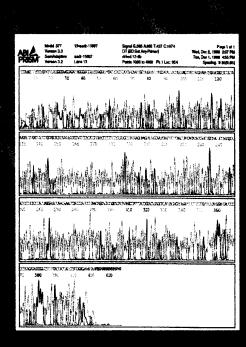




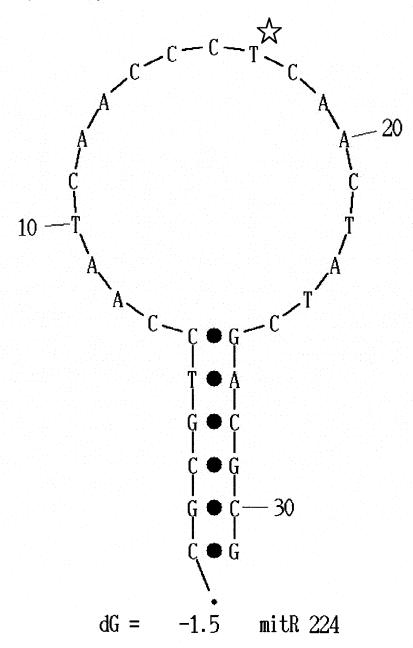




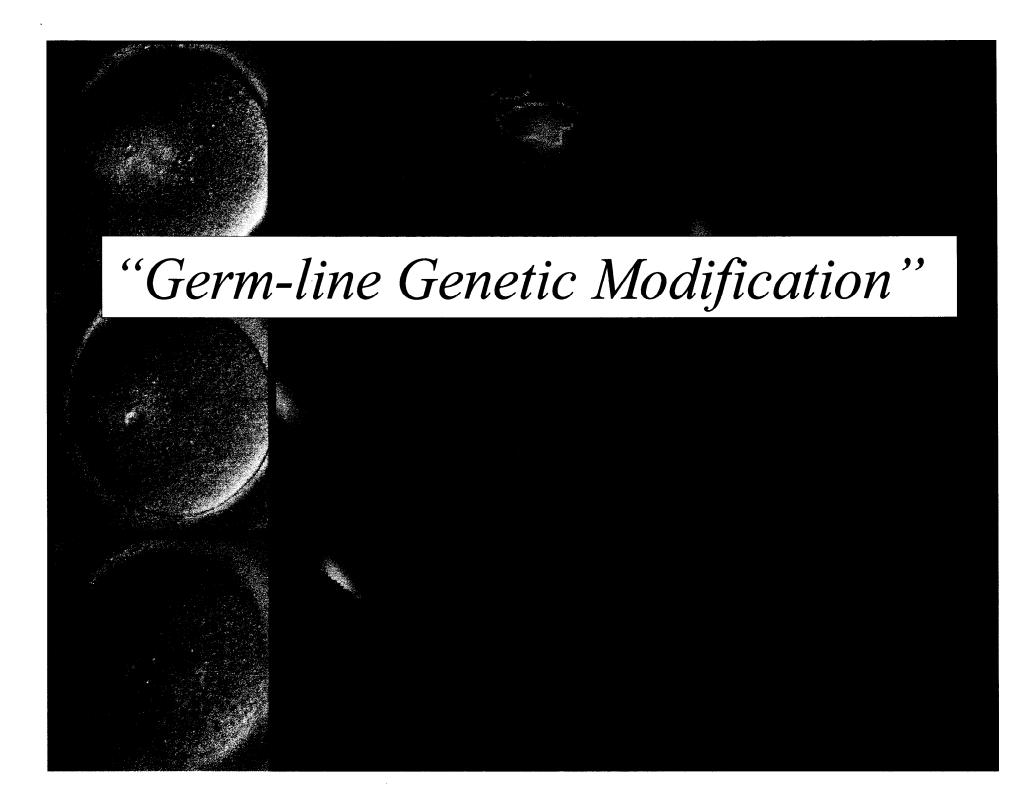




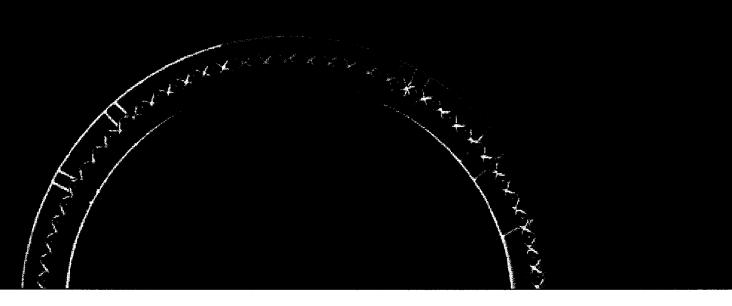




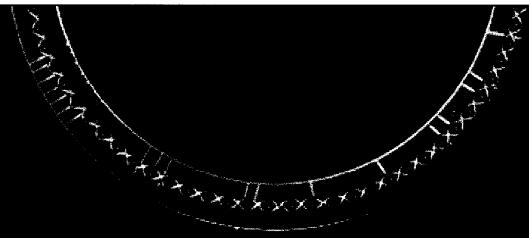
Molecular Beacon for Recipient 16224 mt DNA



Mitochondrial diversity in the hyper-variable area occurs in 10-15% of 'normal' humans



Hyper-variable area is in a non-coding region



No known cases of mitochondrial disease after....egg donation

